

ABSTRACT OF THE DISCLOSURE

A phosphor paste is applied to inner surfaces of a cell. Then, a conveyer moves a substrate relative to a CCD camera at a constant speed. Simultaneously, two LEDs radiate visible light onto a portion, to be inspected, of the substrate. The visible light is light configured to have a wavelength so as to be able to prevent the phosphor of the phosphor paste from being excited and emitting light and reflected by a liquid surface of the phosphor paste to produce reflected light. Thereafter, the CCD camera captures an image of the phosphor paste and a data processor processes the received image data, and determines whether a phosphor layer formed by drying the phosphor paste will normally be formed, prior to formation of phosphor layer.